FARM NEWS

CORN CLUB WORK IS OF GREAT VALUE for boys.

Every Encouragement Should Be tural Clubs-There is An Increas-Work of the Young People Which is Productive of Much Good.

By O. H. BENSON.

It is a well-established fact that both play and contest interests perform a very important part in the processes of education and have much to do in creating efficiency for man in the equation of social and industrial

The corn-club work is a very important factor in the economy of the farm in directing boys who live in rural districts in the business as a profitable and noble profession. The way in which the club work takes hold of a boy is quite remarkable, and from the enthusiasm created by the club work and contests, greater interest in farm life is sure to develop.

We need the boys for the present efficiency of the farm, and we must have their work, their leadership, and their influence for the future if American agriculture and rural interests are to endure and contribute prosperity.

suggest lines of interest and instruc- boys and girls in their work and club tion in addition to the regular club work, which has to do with the acre yield at a reasonable cost of production. These club contests may well be taken up in connection with the rural and village schools: county, district, and state fairs; farmers' institutes, and educational gatherings, with a view to giving direction and interest as well as important training during the entire year. The club contests will enable both teacher and parent to win the boy for better things in needed educative and efficient farm life. Much could be said about the influ-



Two Corn-Club Boys Discussing the Merits of Ears of Seed Corn.

ence of this kind of work upon actual production and land values.

Boys' corn-club work should be constructive and permanent and in order that it may be so the following lines of contest work are suggested to the club membership. These contests should offer some relaxation from the less experimental stage in the north, main line of work and should be practical and recreative as well as instructive. The following are a few of in many sections of the north on acthe objects of corn-club contests: (1). To increase members' inter-

est in corn in all of its import phases. (2). To secure better seed corn and consequently better yields. (All seed should be returned to the ex-

hibitors.) (3). To give industrial activity and practice to club members for the en-

(4). To give members greater interest in club work through combined play and contest methods.

(5). To furnish profitable diversion to the boys during the otherwise idle hours of play time and vacation periods. "An ounce of prevention is better than a pound of cure."

To stimulate interest in the contests the following premiums would be

most suitable: (i). Free trips and expenses paid to district and state fairs, educational institutions, chautauquas, etc. saddle, gold (2). Top buggy,

watch, automobile, etc. (3). Clear title to one or more acres of land (to encourage land

ewnership). implements. (4. Parin equipment, etc. (5). Thoroughbred pigs, cattle,

horses, mules, pens of chickens. (6). Club emblems, banners and pennants.

(7). Manual training workbench, set of tools, cameras, trunk, leather hand bag, writing desk, etc.

(8). Poultry equipment, such as incubators, watering and feed troughs, brooders, fences and gates.

in agricultural and mechanical colleges. Summer than vince him that greater care is needed it reaches the top of the upright pipe, leges and regular courses in colleges. the soil should not be nearer than vince him that greater care is needed it reaches the top of the upright pipe, (10). Canvas tent, camp outfit, seven or eight feet from the surcanoe, hunting equipment, baseball face.

suit, suits of clothes. library, series of books of standard years, unless the plants are winter- dealer.

literature.

nals, magazines or special periodicals

Every premium offered for contests and club work should have for its Given the Boys' and Girls' Agricul- main object the promotion and encouragement of the work. The preing Interest and Enthusiasm in This mium should represent the greatest need and interest of the corn-club membership; it must each the broad viewpoint of the club work and encourage both members and leaders to be progressive and constructive in their work, and it should serve to increase the club members' interest and

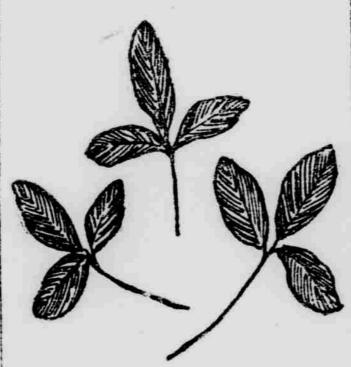
respect for farm life. Club leaders, county superintendents, teachers, and others interested in promoting agricultural and ruralhome interests should lose no opportunity to have exhibits and interests recognized effectively at county, district and state fairs, county farmers' institutes. Short courses, and teachers' associations are excellent mediums for promoting club work, and an exhibit of club products, special contests, essays, and general discussions on phases of the work should occupy some place and time during the regular session. Do not wait for an invitation to submit club interests, but proceed at once to make and present your plans to the proper officials, such as the secretary, the as they should to human comfort and president, and the various premium and program committees. Most of The purpose of this article is to these will be glad to recognize the interests in every way possible.

ALFALFA GROWING IN NORTH.

It Has een Demonstrated That, With a Proper Understanding of the Cultural Requirements of the Crop. and Care In the Selection of Varieties, Alfalfa May Be Satisfactorily Grown In Many Parts of the Northern States.

A. ARNY. In red clover, alfalfa has a rival in many parts of the north. Here red clover luxuriates on a soil to which it seems especially adapted and which, while sharing with alfalfa the capacity for supplying nitrogen, both as a fertilizer to the soil and as a nutritive eylement in feed, lacking in other field crops, has also shown greater endurance under the trying conditions of climate than have some of the strains of alfalfa that have been sown in the north.

fairly started, make it desirable that it should at least be tested in a small clover, will often make it a most valuable adjunct to the farm. Success in handling the crop in a small way, supplemented by the knowledge thus acquired of the conditions making for such success, will afford the best guarantee against failure should it later be determined to devote to alfalfa a larger number of acres. Alfalfa growing, in its present more or is compared with corn growing, once thought economically impracticable count of the short growing season.



Mfalfa Leaves.

Just as corn is now successfully and tity of milk. profitably grown in every State, so may careful experimentation make alsection.

too wet to grow red clover-should ined further. produce alfalfa as well. An abun-

When a good stand of alfalfa is (11). Dictionary, encyclopedia, set secured the field is usually surrenkilled. This should be borne in mind A milk sediment test, which was than those requiring clean culture, as erature.

(12). Subscriptions to farm jour- in choosing a location so that it may constructed by E. H. Lorenz, Madison, do cotton, corn, and tobacco.

not interfere with the best arrangement of the farm as a whole.

generally live in connection with the large number of lots of milk Samples legumes, like alfalfa, clover, beans, of one pint of milk will filter through peas, etc., nitrogen is taken from the it as fast as each lot is ready, air and stored in the roots of the plants. Part of it is used by the plants in their growth, and part be- funnet-shaped at the bottom, termiomes available to other plans when nating in an opening about an inch the roots of the legumes have de- in diameter. A cap on the bottom cayed. Supplied with nitrosen in contains a wire gauge strainer on this way, all leguminous plants grow which a thin disc of absorbent cotton better, and produce more nutritious is placed. This cap is easily attached hay then where no bacteria are found to the apparatus by means of hinged in the nodules on their roots. Therefore, when alfalfa is planted on a field in a locality where no sifelfs has filtered through the apparatus, the been grown before, it is almost al- cap containing the gauze and the cotways a good plan to introduce some of the right kind of bacteria into the disc placed on a piece of white paper soil so that they will be able to work in connection with the alfalfa plants and sediment collected from one plat very soon after they begin to grow. of milk. The amount of dirt obtained Such introduction is called inocula- will vary with different loss of milk tion. The process is simple. Soil and the discs when dry may be refrom a field on which alfalfa is growing luxuriantly, and where the nodules in which they multiply show that it contains the desired bacteria, is scattered broadcast, at the rate o-200 pounds or more per acre, and harrowed in just before or after sowing the alfalfa seed. Care should be exercised to get soil only from clean, healthy fields. Soil well supplied with vegetable matter which makes it a congeniat place for bac teria to lieve is less likely to require inoculation than is a soil deficient in vegetable matter.

When alfalfa has been grown on any farm with success for several years, and the soil in the different field is inoculated, it should be workout in with the regular rotation, for the same reasons that red clover is used in rotations. However, in using alfalfa in rotation, its hould be remembered that it is a true perrenial. That is, unless winter-killed, it usually continues to live for many years. In this respect it differs from red clover, which is a biennial and hence may be expected to die out at the end of the secon growing season from planting the seed. Alfalfa is as valuable as clover in keeping up the productivity of the soil through the addition of vegetable matter and nitrogen, but it is not adapated for changing to a new field every years or every two years as is clover.

IMPROVED TESTS OF DAIRY PRODUCTS.

By S. M. Babcock and E. H. Farring-

There is a growing demand among Alfalfa, however, is recognized as milk consumers as well as dealers and having a higher feeding value than manufacturers of high-grade dairy clover. Could it, therefore, be made products for a new test that will show a part of ordinary rotations, it might the cleanliness and purity of each lot be given a preference. On small of milk received. The testing of milk farms, or on any farms intensively at creameries and cheese factories is cultivated, its value as a nitrogenous usually confined to a fat determination food-superior to clover-and the by the Babcock test. The acid is also greater certainty of a crop when once used more or less for inspecting difterent lots of milk and cream.

Tte grading of milk and cream at way. The longer life of an alfalfa | factories has been attempted to some meadow, as compared to one of extent in recent years and an effort has been made to base the price paid for each lot upon the purity of the milk as well as upon its richness and per cent of acidity. The method commonly used for this purpose has, as a rule, been confined to an inspection of sediment noticed in the bottom of the milk cans when these are emptied.

The benefits to be derived from such an inspection depend largely on the expertness of the individual inspector and the acuteness of his sense of smell and taste. This, undoubtedly, is of some value, but since there is no universal standard that can be adopted by all persons doing such work, the opinions of different inspectors may differ in regard to the purity of the same lots of milk.

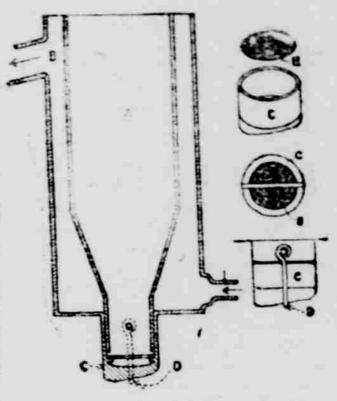
The contamination of milk before it reaches the consumer is caused largely by dirt or suspended matter that gets into it through carelessness in milking or through failure to protect the cans from dust during transportation. Nearly all milk is strained at the farms and this removes some dirt. There is, however, a certain amount sections, have been abandoned. The of sediment left that is not removed character of the erosion varies with by the strainers ordinarily used for the type of soil. Usually, on the heavy this purpose. A complete separation clay soils, "sheet" or surface erosion of the dirt and suspended matter in is found. With increasing proporsweet milk is not an absolute proof tion of sand in the soil the erosion of the amount of character of the changes to the 'shoestring' type, then impurities which may have been dis- to the gully type, with rounded edges, solved in the milk and cannot, there- and finally to the gullies with caving fore, be separated by filteration. A sides. The most rapid erosion seems fairly good idea of the extent to to occur in soils having a lawer of silt which each lot of milk has been con- or clay at the surface and a subtaminated may be obtained, however, by a test that will show the amount of dirt contained in a definite quan-

Milk sediment tests are used to some extent in Europe. These make falfa a permanent factor in the agri- it possible to note not only the amount Any good corn land-any land not tubes the impurities may be exam-

Wis, according to suggestions made by the writers, is herewith described. By the millions of bacteria which This test may be used for testing &

The inside cylinder is 2 1-2 inches in diameter and 6 inches long. It is wire loop.

After a sample of mile has been ton filter is detached and the cotton to dry. This cotton contains the dirt



Details of Construction of Milk Sedlment Tester. The central cylinder A Through which the Milk is Poured is Surrounded by a Steam or Hot Water Jacket With a Half-inch Intervening Space. The Steam or Hot Water Enters at the Lower Opening and Overflows at B. The Brass Cap C Slips Over the Bottom of the Inner Cylinder and Is Held in Place by a Clamp Rod D. This Cap Contains a Circle of Wire Gauze E Over Which is Placed the Disc of Absorbent Cotton. The Cap May Be Quickly Removed By Swinging the Clamp Rod D to One Side and the Dirty Filter May Be Replaced By a Clean One,

turned to the milk producer as evtdence of the degree of cleanliness of his milk.

Each cap should have a number stamped in the meial and as fast as one lot of milk is tested the cap may be removed and another put in place for the next sample. The absorbent cotton discs used as filters are stamped out to fit the cap and wire gauze. The success of filtering depends largely on the texture of these discs which should be made of absorbent cotton that contains no starch or "sizing," The latter have a glossy surface, but the "unsized" cotton or cotton batting cut out in the shape of round discs about oneeighth in ch thick allows the hot milk to filter rapidly through it and retains the fine dirt which is suspended in the milk. The milk is kept hot in this tester during filtering by means of a hot water jacket, surrounding the inner cylinder.

SOIL EROSION HURT TO AGRI-CULTURE IN SOUTH,

Large Areas Lost to Cultivation Every Year.

The following statement regarding soil erosion in the South is taken from the annual report of the Bureau of Soils of the Department:

In a study of soil erosion in the South it has been found that large areas are lost to agriculture annually through erosion. In some States vast areas, amounting to as much as 50 per cent of the arable land of these stratum of sand. This condition usually leads to erosion of the deep gully type, which is difficult to check and unprofitable to reclaim

All methods for prevention and control are based either on increasing the capacity for absorbing the water as cultural prosperity of almost every of suspended matter in the milk, but it falls, or on decreasing the velocity by collecting the sediment in narrow of the run-off. A new method in use in one locality is the construction of what are known as "christophers," The value of a milk sediment test the distinctive feature of this plan lydance of vegetable matter in the soil which will quickly show the amount ing in the manner of disposing of is essential, and so also is good drain- of dirt in a given quantity of milk storm waters. Across an incipient age, such as will prevent water from can be readily appreciated by the con- gully is built a dam, through which is standing long on the surface in low sumer and when the evidence obtained passed a sewer pipe connected with cooders, rences and gates.

(9). Free tuition to short courses places, in winter, in spring, or after by such a test can be shown to the an upright pipe on the upper side of the producer it will help to constant the places. (9). Free tuition to short course places, in the water level in milk producer, it will help to conthe dam. Water fills the valley until in agricultural and mechanical columner rains. The water level in milk producer, it will help to conthe dam. Water fills the valley until tion during milking and handling. The the next field. The water left standamount of sediment obtained by the ing below the mouth of the upright test will in many cases be a great sur- pipe is gradually removed by a tile (11). Dictionary, encyclopedia, set secured to this crop for four or five prise to both milk producer and drain. It is also demonstrated in the of agricultural books, special club dered to this crop for four or five prise to both milk producer and drain. It is also demonstrated in the